

International Council of Scientific Unions

INTER-UNION COMMISSION ON FREQUENCY ALLOCATIONS
FOR RADIO ASTRONOMY AND SPACE SCIENCE

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**TO: PROFESSOR PETER DALY
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**COPY OF FAX TO DR JIM COHEN, JODRELL BANK, U.K.
and IR H.C. KAHLMANN, Chairman, CRAF,
and DR WILLEM BAAN, ARECIBO OBSVY.**

FROM: DR BRIAN ROBINSON

Page 1 of 2.

DATE: 14 SEPT 1993

Dear Peter: Thanks very much for your fax about the changes in GLONASS carrier frequencies, and the change to antipodal satellites transmitting on the same channel.

I believe that these will be long-term changes to the GLONASS system. For I have now received a copy of the Agreement between Russia and Australia signed in Canberra on 6th Sept. Key parts of the Agreement state:

The GLONASS Administration worked out a variety of measures which envisages minimising interference in the band 1610.6-1613.8 MHz at the first stage and eliminating interference at the ~~September~~ ^{second} stage. year some work on switching over operating frequencies aimed at the removal of carrier frequencies of these satellites from the Radio Astronomy band 1610.6-1613.8 MHz will be carried out for the satellites which operate in the band now.

The Russian Federation announced plans to completely eliminate interference to Radio Astronomy in the band 1610.6-1613.8 MHz by 1998.

Copies of the Agreement have been sent from Canberra to the ITU, USA, Canada, Brazil, UK, the European Radiocommunications Office (CEPT), and to INMARSAT.

A very similar (but more specific) Agreement was signed last week in Tokyo between Russia and Japan. The main clauses in the Agreement are:

8 1) As an urgent first step (not later than 1998) the GLONASS system should be restricted to use the lower twelve frequency channels of the present configuration (center frequencies are lower than 1608.1275).

2) As a second step (as early as possible) the twelve frequency channels of the GLONASS system should be shifted down in frequency to channels six and lower (center frequencies are lower than 1604.8125 MHz).

The Russians will be sending delegations to other countries in the next few months. The first delegations were those to Australia and Japan.

Jim Cohen has been observing at 1612 MHz, and reports that the GLONASS carrier frequencies are not present in the RA band. So the Russian undertaking to switch over operating frequencies in September has already begun!

JIM: IT WOULD BE A GOOD IDEA TO LET TYUBALIN KNOW THAT WE HAVE OBSERVED THE SWITCH IN CARRIER FREQUENCIES, AND APPRECIATE THEIR EFFORTS TO CLEAR THE RA BAND.

Brian Robinson.

CERTIFICATE OF SERVICE

I, Philip L. Malet, hereby certify that the foregoing Joint Comments was served by first-class mail, postage prepaid, this 24th day of October, 1993 on the following persons:

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